AMENDMENTS TO THE CLAIMS

For the convenience of the Examiner, all claims have been presented whether or not an amendment has been made. The claims have been amended as follows:

1.   **(Currently Amended)**   A method for recording a video session at a client, comprising:

determining the processing capacity of the client;

establishing a recording interval in response to the determined processing capacity, the recording interval indicating a time between a first recording time and a second recording time;

recording a first video frame at the first recording time, the first video frame including first video data **that comprises a plurality of video pixels arranged in a plurality of rows and a plurality of columns**;

recording a second video frame at the second recording time, the second video frame including second video data **that comprises a corresponding plurality of video pixels arranged in a corresponding plurality of rows and a corresponding plurality of columns**; and

generating a video sub-frame comprising the second video data that is different from the first video data**, wherein generating the video sub-frame comprises:**

sequentially comparing each row of video pixels associated with the second video data with a corresponding row of video pixels associated with the first video data until identifying a row of video pixels where the second video data is different from the first video data, wherein:

sequentially comparing each row of video pixels is initiated from the first row of video pixels and performed until identifying a row of video pixels where the second video data is different from the first video data, the identified row defining a first boundary of the video sub-frame; and

sequentially comparing each row of video pixels is also initiated from the last row of video pixels and performed until

<u>identifying a row of video pixels where the second video data is</u> <u>different from the first video data, the identified row defining a</u> <u>second boundary of the video sub-frame; and</u>

<u>sequentially comparing each column of video pixels associated with</u> <u>the second video data with a corresponding column of video pixels associated</u> <u>with the first video data until identifying a column of video pixels where the</u> <u>second video data is different from the first video data, wherein:</u>

<u>sequentially comparing each column of video pixels is</u> <u>initiated from the first column of video pixels and performed until</u> <u>identifying a column of video pixels where the second video data is</u> <u>different from the first video data, the identified column defining a</u> <u>third boundary of the video sub-frame; and</u>

<u>sequentially comparing each column of video pixels is also</u> <u>initiated from the last column of video pixels and performed until</u> <u>identifying a column of video pixels where the second video data is</u> <u>different from the first video data, the identified column defining a</u> <u>fourth boundary of the video sub-frame</u>.

2.   **(Original)**   The method of Claim 1, further comprising communicating the first video frame and the video sub-frame to a video server coupled to the client.

3.   **(Original)**   The method of Claim 1, wherein the video sub-frame comprises a first video sub-frame and the recording interval further indicating the time between the second recording time and a third recording time, the method further comprising:

recording a third video frame at the third recording time, the third video frame including third video data; and

generating a second video sub-frame comprising the third video data that is different from the second video data.

4.   **(Original)**   The method of Claim 1, wherein the first video frame comprises a first key frame and the video sub-frame comprises a first video sub-frame, the method further comprising:

determining the network capacity of a communication path that couples the client to a video server;

establishing a key frame interval in response to the determined network capacity, the key frame interval indicating a time between the first recording time associated with the first key frame and a third recording time associated with a second key frame;

recording a third video frame at the third recording time, the third video frame comprising the second key frame and including third video data;

recording a fourth video frame at a fourth recording time, the fourth video frame including fourth video data;

generating a second video sub-frame comprising the fourth video data that is different from the third video data; and

communicating the first key frame, the first video sub-frame, the second key frame, and the second video sub-frame to the video server.

5.   **(Cancelled)**

6.   **(Cancelled)**

7.   **(Cancelled)**

8.   **(Original)**   The method of Claim 1, further comprising determining the available processing resources of the client and wherein the step of generating a video sub-frame comprises generating a video sub-frame if the available processing resources of the client exceeds a predetermined threshold.

9.   **(Original)**   The method of Claim 3, wherein:

the step of recording the first video frame comprises storing the first video frame in a queue at the client;

the step of recording the second video frame comprises storing the second video frame in the queue;

the step of recording the third video frame comprises storing the third video frame in the queue;

the method further comprising:

determining the available memory resources of the client;

removing a selected one of the second video frame or the third video frame from the queue if the available memory resources of the client fall below a predetermined threshold.

10.   **(Original)**   The method of Claim 3, wherein the step of recording the first video frame comprises storing the first video frame in a queue at the client, and the step of recording the second video frame comprises storing the second video frame in the queue, the method further comprising:

removing the first video frame from the queue upon generating the first video sub-frame; and

removing the second video frame from the queue upon generating the second video sub-frame.

11.   **(Original)**   The method of Claim 4, further comprising compressing the first key frame, the first video sub-frame, the second key frame, and the second video sub-frame prior to the step of communicating.

12.   **(Original)**   The method of Claim 2, wherein the step of communicating comprises:

communicating a first video segment comprising the first video data; and

communicating a second video segment comprising the video sub-frame.

13.   **(Original)**   The method of Claim 1, wherein:

the first video data comprises the video activity of the client for a first interval of time; and

the second video data comprises the video activity of the client for a second interval of time.

14.   **(Original)**   A client for recording a video session, comprising:

a memory operable to:

store a first video frame recorded at a first recording time, the first video frame including first video data **that comprises a plurality of video pixels arranged in a plurality of rows and a plurality of columns**; and

store a second video frame recorded at a second recording time, the second video frame including second video data **that comprises a corresponding plurality of video pixels arranged in a corresponding plurality of rows and a corresponding plurality of columns**;

and

a processor coupled to the memory and operable to:

determine the processing capacity of the client;

establish a recording interval in response to the determined processing capacity, the recording interval indicating a time between the first recording time and the second recording time; and

generate a video sub-frame comprising the second video data that is different from the first video data**, wherein generating the video sub-frame comprises:**

sequentially comparing each row of video pixels associated with the second video data with a corresponding row of video pixels associated with the first video data until identifying a row of video pixels where the second video data is different from the first video data, wherein:

sequentially comparing each row of video pixels is initiated from the first row of video pixels and performed until identifying a row of video pixels where the second video data is different from the first video data, the identified row defining a first boundary of the video sub-frame; and

sequentially comparing each row of video pixels is also initiated from the last row of video pixels and performed until identifying a row of video pixels where the second video data is different from the first video data, the identified row defining a second boundary of the video sub-frame; and

sequentially comparing each column of video pixels associated with the second video data with a corresponding column of video pixels associated with the first video data until identifying a column of video pixels where the second video data is different from the first video data, wherein:

sequentially comparing each column of video pixels is initiated from the first column of video pixels and performed until identifying a column of video pixels where the second video data is different from the first video data, the identified column defining a third boundary of the video sub-frame; and

sequentially comparing each column of video pixels is also initiated from the last column of video pixels and performed until identifying a column of video pixels where the second video data is different from the first video data, the identified column defining a fourth boundary of the video sub-frame.

15.   (Original)   The client of Claim 14, wherein the processor is further operable to communicate the first video frame and the video sub-frame to a video server coupled to the client.

16.   (Original)   The client of Claim 14, wherein the video sub-frame comprises a first video sub-frame and the recording interval rate further indicating the time between the second recording time and a third recording time, the processor further operable to:

record a third video frame at the third recording time, the third video frame including third video data; and

generate a second video sub-frame comprising the third video data that is different from the second video data.

17.   (Original)   The client of Claim 14, wherein the first video frame comprises a first key frame and the video sub-frame comprises a first video sub-frame, the processor further operable to:

determine the network capacity of a communication path that couples the client to a video server;

establish a key frame interval in response to the determined network capacity, the key frame interval indicating a time between the first recording time associated with the first key frame and a third recording time associated with a second key frame;

record a third video frame at the third recording time, the third video frame comprising the second key frame and including third video data;

record a fourth video frame at a fourth recording time, the fourth video frame including fourth video data;

generate a second video sub-frame comprising the fourth video data that is different from the third video data; and

communicate the first key frame, the first video sub-frame, the second key frame, and the second video sub-frame to the video server.

18.   (Cancelled)

19.   (Cancelled)

20.   (Cancelled)

21.   (Original)   The client of Claim 16, wherein the processor is further operable to:

determine the available processing resources of the client; and

generate a video sub-frame if the available processing resources of the client exceeds a predetermined threshold.

22.   **(Original)**   The client of Claim 16, wherein:

the memory is further operable to:

store the first video frame in a queue at the client;

store the second video frame in the queue; and

store the third video frame in the queue;

and

the processor is further operable to:

determine the available memory resources of the client; and

remove a selected one of the second video frame or the third video frame from the queue if the available memory resources of the client does not exceed a predetermined threshold.

23.   **(Original)**   The client of Claim 16, wherein:

the memory is further operable to store the first video frame and the second video frame in a queue at the client; and

the processor is further operable to remove the first video frame from the queue upon generating the first video sub-frame, and to remove the second video frame from the queue upon generating the second video sub-frame.

24.   **(Original)**   The client of Claim 17, wherein the processor is further operable to compress the first key frame, the first video sub-frame, the second key frame, and the second video sub-frame prior to communicating.

25.   **(Original)**   The client of Claim 15, wherein the processor is further operable to:

communicate a first video segment comprising the first video data; and

communicate a second video segment comprising the video sub-frame.

26.   **(Original)**   The client of Claim 14, wherein:

the first video data comprises the video activity of the client for a first interval of time; and

the second video data comprises the video activity of the client for a second interval of time.

27.   **(Original)**   A system for recording a video session, comprising:

a video server operable to communicate a start record command; and

a client coupled to the video server using a communication path and operable to:

determine the processing capacity of the client;

establish a recording interval in response to the determined processing capacity, the recording interval indicating a time between a first recording time and a second recording time;

record a first video frame at the first recording time in response to the start record command, the first video frame including first video data **that comprises a plurality of video pixels arranged in a plurality of rows and a plurality of columns**;

record a second video frame at the second recording time, the second video frame including second video data **that comprises a corresponding plurality of video pixels arranged in a corresponding plurality of rows and a corresponding plurality of columns**; and

generate a video sub-frame comprising the second video data that is different from the first video data**, wherein generating the video sub-frame comprises:**

sequentially comparing each row of video pixels associated with the second video data with a corresponding row of video pixels associated with the first video data until identifying a row of video pixels where the second video data is different from the first video data, wherein:

sequentially comparing each row of video pixels is initiated from the first row of video pixels and performed until identifying a row of video pixels where the second video data is different from the first video data, the identified row defining a first boundary of the video sub-frame; and

sequentially comparing each row of video pixels is also initiated from the last row of video pixels and performed until identifying a row of video pixels where the second video data is different from the first video data, the identified row defining a second boundary of the video sub-frame; and

sequentially comparing each column of video pixels associated with the second video data with a corresponding column of video pixels associated with the first video data until identifying a column of video pixels where the second video data is different from the first video data, wherein:

sequentially comparing each column of video pixels is initiated from the first column of video pixels and performed until identifying a column of video pixels where the second video data is different from the first video data, the identified column defining a third boundary of the video sub-frame; and

sequentially comparing each column of video pixels is also initiated from the last column of video pixels and performed until identifying a column of video pixels where the second video data is different from the first video data, the identified column defining a fourth boundary of the video sub-frame.

28.   **(Original)**   The system of Claim 27, wherein the client is further operable to communicate the first video frame and the video sub-frame to the video server.

29.   **(Original)**   The system of Claim 27, wherein the video sub-frame comprises a first video sub-frame and the recording interval further indicating the time between the second recording time and a third recording time, the client further operable to:

record a third video frame at the third recording time, the third video frame including third video data; and

generate a second video sub-frame comprising the third video data that is different from the second video data.

30.   **(Original)**   The system of Claim 27, wherein the first video frame comprises a first key frame and the video sub-frame comprises a first video sub-frame, the client further operable to:

determine the network capacity of the communication path;

establish a key frame interval in response to the determined network capacity, the key frame interval indicating a time between the first recording time associated with the first key frame and a third recording time associated with a second key frame;

record a third video frame at the third recording time, the third video frame comprising the second key frame and including third video data;

record a fourth video frame at a fourth recording time, the fourth video frame including fourth video data;

generate a second video sub-frame comprising the fourth video data that is different from the third video data; and

communicate the first key frame, the first video sub-frame, the second key frame, and the second video sub-frame to the video server.

31.   **(Cancelled)**

32.   **(Cancelled)**

33.   **(Cancelled)**

34.   **(Original)**   The system of Claim 27, wherein the client is further operable to:

determine the available processing resources of the client; and

generate a video sub-frame if the available processing resources of the client exceeds a predetermined threshold.

35.   **(Original)**   The system of Claim 29, wherein the client is further operable to:

store the first video frame in a queue at the client;

store the second video frame in the queue;

store the third video frame in the queue;

determine the available memory resources of the client; and

remove a selected one of the second video frame or the third video frame from the queue if the available memory resources of the client does not exceed a predetermined threshold.

36.   **(Original)**   The system of Claim 29, wherein the client is further operable to:

store the first video frame and the second video frame in a queue;

remove the first video frame from the queue upon generating the first video sub-frame; and

remove the second video frame from the queue upon generating the second video sub-frame.

37.   **(Original)**   The system of Claim 30, wherein the client is further operable to compress the first key frame, the first video sub-frame, the second key frame, and the second video sub-frame prior to communicating.

38.   **(Original)**   The system of Claim 28, wherein the client is further operable to:

communicate a first video segment comprising the first video data; and

communicate a second video segment comprising the video sub-frame.

39.   **(Original)**   The system of Claim 27, wherein:

the first video data comprises the video activity of the client for a first interval of time; and

the second video data comprises the video activity of the client for a second interval of time.

40.   (New) A method for recording a video session at a client, comprising:

recording a first video frame at a first recording time, the first video frame including first video data that comprises a plurality of video pixels arranged in a plurality of rows and a plurality of columns;

recording a second video frame at a second recording time, the second video frame including second video data that comprises a corresponding plurality of video pixels arranged in a corresponding plurality of rows and a corresponding plurality of columns; and

generating a video sub-frame comprising the second video data that is different from the first video data, wherein generating the video sub-frame comprises:

sequentially comparing each row of video pixels associated with the second video data with a corresponding row of video pixels associated with the first video data until identifying a row of video pixels where the second video data is different from the first video data, wherein:

sequentially comparing each row of video pixels is initiated from the first row of video pixels and performed until identifying a row of video pixels where the second video data is different from the first video data, the identified row defining a first boundary of the video sub-frame; and

sequentially comparing each row of video pixels is also initiated from the last row of video pixels and performed until identifying a row of video pixels where the second video data is different from the first video data, the identified row defining a second boundary of the video sub-frame; and

sequentially comparing each column of video pixels associated with the second video data with a corresponding column of video pixels associated with the first video data until identifying a column of video pixels where the second video data is different from the first video data, wherein:

sequentially comparing each column of video pixels is initiated from the first column of video pixels and performed until identifying a column of video pixels where the second video data is different from the first video data, the identified column defining a third boundary of the video sub-frame; and

sequentially comparing each column of video pixels is also initiated from the last column of video pixels and performed until identifying a column of video pixels where the second video data is different from the first video data, the identified column defining a fourth boundary of the video sub-frame.

41.   (New) A client for recording a video session, comprising:

a memory operable to:

store a first video frame recorded at a first recording time, the first video frame including first video data that comprises a plurality of video pixels arranged in a plurality of rows and a plurality of columns; and

store a second video frame recorded at a second recording time, the second video frame including second video data that comprises a corresponding plurality of video pixels arranged in a corresponding plurality of rows and a corresponding plurality of columns;

and

a processor coupled to the memory and operable to generate a video sub-frame comprising the second video data that is different from the first video data, wherein generating the video sub-frame comprises:

sequentially comparing each row of video pixels associated with the second video data with a corresponding row of video pixels associated with the first video data until identifying a row of video pixels where the second video data is different from the first video data, wherein:

sequentially comparing each row of video pixels is initiated from the first row of video pixels and performed until identifying a row of video pixels where the second video data is different from the first video data, the identified row defining a first boundary of the video sub-frame; and

sequentially comparing each row of video pixels is also initiated from the last row of video pixels and performed until identifying a row of video pixels where the second video data is

different from the first video data, the identified row defining a second boundary of the video sub-frame; and

sequentially comparing each column of video pixels associated with the second video data with a corresponding column of video pixels associated with the first video data until identifying a column of video pixels where the second video data is different from the first video data, wherein:

sequentially comparing each column of video pixels is initiated from the first column of video pixels and performed until identifying a column of video pixels where the second video data is different from the first video data, the identified column defining a third boundary of the video sub-frame; and

sequentially comparing each column of video pixels is also initiated from the last column of video pixels and performed until identifying a column of video pixels where the second video data is different from the first video data, the identified column defining a fourth boundary of the video sub-frame.